


**ADDENDUM 001  
REQUEST FOR BID  
CIRCULAR LED SIGNAL MODULES  
RFB NUMBER: 2-080219BT2**

Bidders shall acknowledge receipt of Addendum 001 (ONE) by signing and including it with the original bid. The due date for receipt of bids has not been changed by this Addendum. Accordingly, the change is believed to be of general interest to all potential bidders. The original solicitation is hereby changed to make revision throughout the document. All other terms and conditions remain unchanged and in full force.

Name and Title of Signer (Print or type)	Name and Title of Department Authority  Brenda Tyree Procurement Agent
Contractor/Bidder Signature	Department of Transportation 
(Signature of person authorized to sign)	(Authorizing Signature)
Date Signed:	Date Signed:

BID FORM

## MISSOURI DEPARTMENT OF TRANSPORTATION

## GENERAL SERVICES

830 MoDOT DRIVE – P.O. BOX 270

JEFFERSON CITY, MO 65109

REQUEST NO. 2-080219BT2

DATE February 5, 2008

PAGE NO. 1 NO. OF PAGES

SEALED BIDS, SUBJECT TO THE ATTACHED CONDITIONS WILL  
BE RECEIVED AT THIS OFFICE UNTIL**2:00 p.m., Local Time, February 19, 2008**AND THEN PUBLICLY OPENED AND READ FOR FURNISHING  
THE FOLLOWING SUPPLIES OR SERVICES.**BIDS TO BE BASED F.O.B. MISSOURI DEPARTMENT OF  
TRANSPORTATION**Submit net bid as cash discount stipulations will not be considered  
Various MoDOT LocationsDEFINITE DELIVERY DATE SHOULD BE SHOWN. SIGN AND RETURN BEFORE TIME SET FOR OPENING. **ALL BIDS  
SHOULD BE EXTENDED AND TOTALED.**BUYER: Brenda Tyree  
BUYER EMAIL:  
Brenda.Tyree@modot.mo.gov

BUYER TELEPHONE: 573- 751-7482

## SUPPLIES OR SERVICES

**CIRCULAR LED SIGNAL MODULES**To establish a contract to furnish "Circular LED Signal Modules" with an effective date of  
Notice to Proceed and ending March 31, 2009 in accordance with the following pages.**Components of Agreement:** The Agreement between MHTC and the successful Bidder shall consist of: the RFB and any written amendments thereto, the "Standard Bid/Proposal Provisions, General Terms and Conditions and Special Terms and Conditions" that are attached to this RFB, the bid submitted by the Bidder in response to the RFB and the post-award contract agreement signed between the parties. However, MHTC reserves the right to clarify any relationship in writing and such written clarification shall govern in case of conflict with the applicable requirements stated in the RFB or the Bidder's bid. The Bidder is cautioned that its bid shall be subject to acceptance by MHTC without further clarification.**Return sealed bid to the address shown at the top of this page.****(SEE ATTACHED FOR CONDITIONS AND INSTRUCTIONS)***In compliance with the above Request For Bid, and subject to all conditions thereof, the undersigned bidder agrees to furnish and deliver any or all the items on which prices were bid within the timeframe specified herein, after receipt of formal purchase order.*

Date: \_\_\_\_\_

Firm Name: \_\_\_\_\_

Telephone No.: \_\_\_\_\_

Address: \_\_\_\_\_

Fax No.: \_\_\_\_\_

Federal I.D. No. \_\_\_\_\_

By (Signature): \_\_\_\_\_

Email Address: \_\_\_\_\_

Type/Print Name \_\_\_\_\_

Form E-103 (Rev. 11-04)

Title: \_\_\_\_\_

## 2. SCOPE OF WORK

### 2.1 General Requirements:

- 2.1.1 The contractor shall provide Circular LED Signal Modules on an as needed, if needed basis for the Missouri Highway and Transportation Commission (MHTC) and Missouri Department of Transportation (MoDOT), in accordance with the provisions and requirements stated herein.
- 2.1.2 The contractor shall provide all deliverables/services to the sole satisfaction of MoDOT.
- 2.1.3 MoDOT estimates, but does not guarantee, the purchase of the estimated quantities stated herein.
- 2.1.4 The contractor shall provide all equipment which conforms to the following:
  - a) All circular indications shall be 12 inches (300 mm) unless specified otherwise. All circular signal indications in conventional signal heads shall be illuminated with LED modules. All LED modules shall be in accordance with ITE specifications and standards for circular LED vehicle traffic signal modules and shall be in accordance with the following:
    - (1) The lens of each red indication shall be tinted uniformly across the lens face with a wavelength-matched color to reduce sun phantom effect and to enhance on/off contrast. If a polymeric lens is supplied, a surface coating shall be applied to provide abrasion resistance.
    - (2) The LED modules shall not contain Aluminum Gallium Arsenide (AlGaAs).
    - (3) The LED modules shall provide constant light output under power. Modules with dimming capabilities shall have the option disabled or shall be set on a non-dimming operation.
    - (4) In the event of a power outage, light output from the LED modules shall cease instantaneously.
    - (5) Modules shall be designed to sense a loss of light output due to catastrophic LED failures between 25 and 40 percent. Loss of light output due to LED failure shall not be detected for losses less than 25 percent, but shall be detected for any loss of light greater than 40 percent. The unit, upon sensing a valid loss of light, shall present an impedance of 500 kilohms to the alternating current line.
- 2.1.5 MoDOT reserves the right to obtain "like or similar" products as specified herein from other manufacturers, exclusive of the contract, when use of such products is deemed in the best interest of MoDOT.
- 2.1.6 Unless otherwise specified herein, the contractor shall furnish all material, labor, facilities, equipment, and supplies necessary to provide the deliverables/services required herein.

### 2.2 Specific Requirements:

- 2.2.1 The contractor shall provide MoDOT with Circular LED Signal Modules in accordance with the requirements stated herein.
- 2.2.2 The contractor shall only provide Circular LED Signal Modules as specified on the attached list elsewhere herein.

### 3. BID SUBMISSION

#### 3.1 Bid Submission Information:

- 3.1.1 All bids must be received in a sealed envelope clearly marked "**Circular LED Signal Modules**".
- 3.1.2 All bids must be received at the following address no later than February 19, 2008 at 2:00 p.m., CST.

The Missouri Department of Transportation  
General Services – Procurement Division  
Attn: Brenda Tyree  
830 MoDOT Drive  
Jefferson City, MO 65109

- 3.1.3 The bidder may withdraw, modify or correct his bid after it has been deposited with the Department provided such request is submitted in writing and received at the location designated for the bid opening prior to the time specified for opening bids. Such a request received as specified will be attached to the bid and the bid will be considered to have been modified accordingly. No bid may be modified after the time specified for the opening of bids.
- 3.1.4 Open Competition / Request For Bid Document:
  - a. It shall be the bidder's responsibility to ask questions, request changes or clarification, or otherwise advise MoDOT if any language, specifications or requirements of an RFB appear to be ambiguous, contradictory, and/or arbitrary, or appear to inadvertently restrict or limit the requirements stated in the RFB to a single source. Any and all communication from bidders regarding specifications, requirements, competitive bid process, etc., must be directed to the buyer from MoDOT, unless the RFB specifically refers the bidder to another contact. Such communication should be received at least three (3) working days prior to the official bid opening date.
  - b. Every attempt shall be made to ensure that the bidder receives an adequate and prompt response. However, in order to maintain a fair and equitable bid process, all bidders will be advised, via the issuance of an amendment to the RFB, of any relevant or pertinent information related to the procurement. Therefore, bidders are advised that unless specified elsewhere in the RFB, any questions received less than three (3) working days prior to the RFB opening date may not be answered.
  - c. Bidders are cautioned that the only official position of the State of Missouri is that which is issued by MoDOT in the RFB or an amendment thereto. No other means of communication, whether oral or written, shall be construed as a formal or official response or statement.
  - d. MoDOT monitors all procurement activities to detect any possibility of deliberate restraint of competition, collusion among bidders, price-fixing by bidders, or any other anticompetitive conduct by bidders which appears to violate state and federal antitrust laws. Any suspected violation shall be referred to the Missouri Attorney General's Office for appropriate action.
- 3.1.5 Bids will be reviewed to determine if the bid complies with the mandatory requirements, and to determine the lowest and best bid.
- 3.1.6 The bidder is hereby advised that only items on the attached list elsewhere herein shall be accepted.
- 3.1.7 Bidders must complete and submit a MoDOT CIRCULAR LED SIGNAL INDICATION INFORMATION AND CERTIFICATION form. An ITE Certificate of Compliance to the Supplement Purchase Specification for Vehicle Traffic Control Signal Heads - Light Emitting Diode (LED) Circular Signal Modules must be submitted for each circular indication.

## **Approved Circular Light Emitting Diode Signal Modules**

### **Red Ball**

#### **Manufacturer**

American Signal Corporation  
Dialight  
Gelcore  
Duralight

#### **Model**

ASC-0300-RB1  
433-1210-003XL  
DR6-RTFB-17A  
JXC-300CAR

### **Green Ball**

#### **Manufacturer**

American Signal Corporation  
Dialight  
Gelcore  
Duralight

#### **Model**

ASC-0300-GB1  
433-2220-001XL  
DR6-GCFB-17A  
JXC-300CAG

### **Yellow Ball**

#### **Manufacturer**

American Signal Corporation  
Dialight  
Gelcore

#### **Model**

ASC-0300-YB1  
433-3230-001XL  
DR6-YTFB-17A

## MoDOT LED SIGNAL INDICATION INFORMATION AND CERTIFICATION

I certify that the LED signal indications specified below are manufactured according to the MoDOT Light Emitting Diode (LED) Signal Indications specification and conform to all requirements of the contract.

Type: \_\_\_\_\_ (i.e. Red Ball, Green Ball, Yellow Ball)

Brand: \_\_\_\_\_

Model Number: \_\_\_\_\_

Power Consumption \_\_\_\_\_ watts

LED Type \_\_\_\_\_ (i.e. AlInGaP, etc.)

LED Wavelength \_\_\_\_\_ nm

NOTE: Submit a separate copy of this form for each type of signal indication to be provided.

Signed: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_